

impression[&] *Spot* *one*

DMX Channel Sheet



from software version 1.52
(Instruction version 1.53)



**GERMAN LIGHT
PRODUCTS**

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DMX Channels

Normal-Mode 24 DMX Channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN- coarse	0 .. 540°		0..255	00..FF	0..100
2) PAN-fine	High- Pos ... High- Pos + 2,6° (16 Bit)		0..255	00..FF	0..100
3) Tilt- coarse	0 .. 280°		0..255	00..FF	0..100
4) Tilt-fine	High- Pos ... High- Pos + 1,2° (16 Bit)		0..255	00..FF	0..100
5) Color (fixed)	Colors adjustable via RGB		0..7	00..07	0..2,5
	Color 01 - Red		8..15	08..0F	3..5,5
	Color 02 - Amber		16..23	10..17	6..8,5
	Color 03 – Yellow warm		24..31	18..1F	9..12,5
	Color 04 - Yellow		32..39	20..27	13..15,5
	Color 05 – Green		40..47	28..2F	16..18,5
	Color 06 – Turquoise		48..55	30..37	19..21,5
	Color 07 – Cyan		56..63	38..3F	22..24,5
	Color 08 - Blue		64..71	40..47	25..27,5
	Color 09 - Lavender		72..79	48..4F	28..30,5
	Color 10 - Malve		80..87	50..57	31..34,5
	Color 11 – Magenta		88..95	58..5F	35..37,5
	Color 12 - Pink		96..103	60..67	38..40,5
	White - CTO	Color temp. 3200K	104..111	68..6F	41..43,5
	White	Color temp. 5600K	112..119	70..77	44..46,5
	White – CTB	Color temp. 7200K	120..127	78..7F	47..49,5
	Rainbow Effect Stop	Stop	128	80	50
	Rainbow Effect	slow – fast Color 01 -> Color 12	129..255	81..FF	51..100
6) Red	Color mixing system - Red	0 - 100%	0..255	00..FF	0..100
7) Green	Color mixing system - Green	0 - 100%	0..255	00..FF	0..100
8) Blue	Color mixing system - Blue	0 - 100%	0..255	00..FF	0..100
9) Shutter	Shutter closed		0..15	00..0F	0..5,5
	Shutter pulse random	slow – fast	16..47	10..2F	6..18,5
	Shutter ramp up	slow – fast	48..79	30..4F	19..31
	Shutter ramp down	slow – fast	80..111	50..6F	32..43
	Shutter ramp up/down	slow – fast	112..143	70..8F	44..56
	Random strobe	slow – fast	144..159	90..9F	57..62
	Strobe effect pause	5s ...0,1s	160..199	A0..C7	63..77
	Strobe effect slow - fast	1 Hz .. 25 Hz	200..241	C8..F1	78..95
	Shutter open		242..255	F2..FF	96..100
10) Dimmer	Dimmer	0% - 100%	0..255	0..FF	0..100
11) Color temp.	No color temperature correction		0..7	0..07	0..2,5
	Continuous color temperature correction between 7200k - 3200k	Applicable for ALL colors ⁵⁾	8..255	08..FF	3..100
12) Special	RESET 1	Only Head	250..253	FA..FC	98..99
	RESET 2	All Funktionen	254..255	FD..FF	100
13) Movement	No movement		0	0	0
	Movement	Size	Phase		

	PAN	1	0°		01..01
		1	90°		02..03
		1	180°		04..05
		1	270°		06..07
	PAN	2	0°		08..09
		2	90°		10..11
		2	180°		12..13
		2	270°		14..15
	PAN	3	0°		16..17
		3	90°		18..19
		3	180°		20..21
		3	270°		22..23
	PAN	4	0°		24..25
		4	90°		26..27
		4	180°		28..29
		4	270°		30..31
	TILT	size / phase see also PAN	32..63	20..3F	13..25
	PAN / TILT	size / phase see also PAN	64..95	40..5F	26..37
	PAN / TILT (inverse)	size / phase see also PAN	96..127	60..7F	38..50
14) Speed Pan/Tilt	Circle	size / phase see also PAN	128..159	80..9F	51..62
	Circle (inverse)	size / phase see also PAN	160..191	A0..BF	63..75
	Lying eight	size / phase see also PAN	192..223	C0..DF	76..87
	Random movement	size see also PAN	224..255	E0..FF	88..100
15) Zoom	Pan/Tilt relative movement		0..1	00..01	0..0,5
	Pan/Tilt slow – fast Use this channel 14) also for the speed of the movements (channel 13).	Pan Min. 540° Pan Max. 540° Tilt Min. 280° Tilt Max. 280°	2..255	02..FF	1..100
16) Focus	Stepless adjustable Focus	10° – 32°	0 .. 255	0..F F	0..100
17) Gobo1 (indexed)	Stepless adjustable Focus	infinity – near	0 .. 255	0..FF	0..100
	Gobo 1 (open,)		0...15	00..0F	0..5,9
	Gobo 2		16..31	10..1F	6..11,9
	Gobo 3		32..47	20.. 2F	12..17,9
	Gobo 4		48..63	30.. 3F	19.. 24,5
	Gobo 5		64..79	40..4F	25..30,5
	Gobo 6		80..95	50..5F	31..37,5
	Gobo		96..111	60..6F	38..43,5
	Gobo 8		112..126	70..82	44..48
	Gobo rotation STOP		127	7F	49
	Gobo rotation, slow-fast, CW		128..192	80..C0	50..76
18) Gobo 1 Posi./Rot	Gobo rotation, fast-slow, CCW		193..255	C1..FF	77..100
	Gobo position 0 ... 540°		0..127	00..7F	0..49
	Gobo rotation STOP		128..129	80..81	50

	Gobo rotation, slow-fast, CW		130..192	82..C0	51..75
	Gobo rotation, fast-slow, CCW		193..253	C1..FD	76..99
	Gobo rotation STOP		254..255	FD..FF	99..100
19) Gobo2 (indexed)	Gobo 1 (open)		0..15	00..0F	0..5,9
	Gobo 2		16..31	10..1F	6..11,9
	Gobo 3		32..47	20.. 2F	12..17,9
	Gobo 4		48..63	30.. 3F	19.. 24,5
	Gobo 5		64..79	40..4F	25..30,5
	Gobo 6		80..95	50..5F	31..37,5
	Gobo 7		96..111	60..6F	38..43,5
	Gobo 8		112..126	70..82	44..48
	Gobo rotation STOP		127	7F	49
	Gobo rotation, slow-fast, CW		128..192	80..C0	50..76
	Gobo rotation, fast-slow, CCW		193..255	C1..FF	77..100
	Gobo rotation STOP		254..255	FD..FF	99..100
20) Gobo 2 Posi./Rot	Gobo position 0 ... 540°		0..127	00..7F	0..49
	Gobo rotation STOP		128..129	80..81	50
	Gobo rotation, slow-fast, CW		130..192	82..C0	51..75
	Gobo rotation, fast-slow, CCW		193..253	C1..FD	76..99
	Gobo rotation STOP		254..255	FD..FF	99..100
21) Effect wheel swing	Stepless swing of the "Motion Wheel"	0 - 100%	0..255	00..FF	0..100
22) Effect wheel Posi./Rot	Rotating stop		0..1	00..01	00..1
	Rotating slow - fast CW		1..128	01..80	1..50
	Rotating fast - slow CCW		129..254	81..FD	51..99
	Rotating stop		254..255	FD..FF	99..100
23) Prism	Prism swing out		0..5	00..05	0..2
	Prism position 0 ... 540°		6..127	06..7F	0..50
	Prism rotation stop		128..129	80..81	50,1
	Prism rotation, slow-fast, CW		130..192	82..C0	51..75
	Prism rotation, fast-slow, CCW		193..253	C1..FD	76..99
	Prism rotation stop		254..255	FD..FF	99..100
24) Iris	Iris open – closed		0..131	00..83	00..52

Compress-Mode 20 DMX Channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN- coarse	0 .. 540°		0..255	00..FF	0..100
2) PAN-fine	High- Pos ... High- Pos +(16 Bit)		0..255	00..FF	0..100
3) Tilt- coarse	0 .. 280°		0..255	00..FF	0..100
4) Tilt-fine	High- Pos ... High- Pos + (16 Bit)		0..255	00..FF	0..100
5) Color (fixed)	Colors adjustable via RGB		0..7	00..07	0..2,5
	Color 01 - Red		8..15	08..0F	3..5,5
	Color 02 - Amber		16..23	10..17	6..8,5
	Color 03 - Yellow warm		24..31	18..1F	9..12,5
	Color 04 - Yellow		32..39	20..27	13..15,5
	Color 05 - Green		40..47	28..2F	16..18,5
	Color 06 - Turquoise		48..55	30..37	19..21,5
	Color 07 - Cyan		56..63	38..3F	22..24,5
	Color 08 - Blue		64..71	40..47	25..27,5
	Color 09 - Lavender		72..79	48..4F	28..30,5
	Color 10 - Malve		80..87	50..57	31..34,5
	Color 11 - Magenta		88..95	58..5F	35..37,5
	Color 12 - Pink		96..103	60..67	38..40,5
	White - CTO	Color temp. 3200K	104..111	68..6F	41..43,5
	White	Color temp. 5600K	112..119	70..77	44..46,5
	White - CTB	Color temp. 7200K	120..127	78..7F	47..49,5
	Rainbow Effect Stop		128	80	50
	Rainbow Effect	slow – fast Color 01 -> Color 12	129..255	81..FF	51..100
6) Red	Color mixing system - Red	0 - 100%	0..255	00..FF	0..100
7) Green	Color mixing system - Green	0 - 100%	0..255	00..FF	0..100
8) Blue	Color mixing system - Blue	0 - 100%	0..255	00..FF	0..100
9) Shutter	Shutter closed		0..15	00..0F	0..5,5
	Shutter pulse random	slow – fast	16..47	10..2F	6..18,5
	Shutter ramp up	slow – fast	48..79	30..4F	19..31
	Shutter ramp down	slow – fast	80..111	50..6F	32..43
	Shutter ramp up/down	slow – fast	112..143	70..8F	44..56
	Random strobe	slow – fast	144..159	90..9F	57..62
	Strobe effect pause	5s ...0,1s	160..199	A0..C7	63..77
	Strobe effect slow - fast	1 Hz .. 25 Hz	200..241	C8..F1	78..95
	Shutter open		242..249	F2..F9	95,5..96,5
	RESET 1	Only Head	250	FA	97
	RESET 2	All Funktionen	251	FB	98
	Shutter open		252..255	FC..FF	99..100
10) Dimmer	Dimmer	0% - 100%	0..255	0..FF	0..100
11) Zoom	Stepless adjustable Zoom	10° – 32°	0 .. 255	0..F F	0..100
12) Focus	Stepless adjustable Focus	infinity – near	0 .. 255	0..FF	0..100
13)Gobo1 (indexed)	Gobo 1 (open)		0..15	00..0F	0..5,9
	Gobo 2		16..31	10..1F	6..11,9
	Gobo 3		32..47	20.. 2F	12..17,9
	Gobo 4		48..63	30.. 3F	19.. 24,5
	Gobo 5		64..79	40..4F	25..30,5

	Gobo 6		80..95	50..5F	31..37,5
	Gobo		96..111	60..6F	38..43,5
	Gobo 8		112..126	70..82	44..48
	Gobo rotation STOP		127	7F	49
	Gobo rotation, slow-fast, CW		128..192	80..C0	50..76
	Gobo rotation, fast-slow, CCW		193..255	C1..FF	77..100
14) Gobo 1 Posi./Rot	Gobo position 0 ... 540°		0..127	00..7F	0..49
	Gobo rotation STOP		128..129	80..81	50
	Gobo rotation, slow-fast, CW		130..192	82..C0	51..75
	Gobo rotation, fast-slow, CCW		193..253	C1..FD	76..99
	Gobo rotation STOP		254..255	FD..FF	99..100
15) Gobo2 (indexed)	Gobo 1 (open, fast)		0...15	00..0F	0..5,9
	Gobo 2		16..31	10..1F	6..11,9
	Gobo 3		32..47	20.. 2F	12..17,9
	Gobo 4		48..63	30.. 3F	19.. 24,5
	Gobo 5		64..79	40..4F	25..30,5
	Gobo 6		80..95	50..5F	31..37,5
	Gobo 7		96..111	60..6F	38..43,5
	Gobo 8		112..126	70..82	44..48
	Gobo rotation STOP		127	7F	49
	Gobo rotation, slow-fast, CW		128..192	80..C0	50..76
	Gobo rotation, fast-slow, CCW		193..255	C1..FF	77..100
16) Gobo 2 Posi./Rot	Gobo position 0 ... 540°		0..127	00..7F	0..49
	Gobo rotation STOP		128..129	80..81	50
	Gobo rotation, slow-fast, CW		130..192	82..C0	51..75
	Gobo rotation, fast-slow, CCW		193..253	C1..FD	76..99
	Gobo rotation STOP		254..255	FD..FF	99..100
17) Effect wheel swing	Stepless swing of the "Motion Wheel"	0 - 100%	0..255	00..FF	0..100
18) Effect wheel Posi./Rot	Rotating stop		0..1	00..01	00..1
	Rotating slow - fast CW		1..128	01..80	1..50
	Rotating fast - slow CCW		129..254	81..FD	51..99
	Rotating stop		254..255	FD..FF	99..100
19) Prism	Prism swing out		0..5	00..05	0..2
	Prism position 0 ... 540°		6..127	06..7F	0..50
	Prism rotation stop		128..129	80..81	50,1
	Prism rotation, slow-fast, CW		130..192	82..C0	51..75
	Prism rotation, fast-slow, CCW		193..253	C1..FD	76..99
	Prism rotation stop		254..255	FD..FF	99.100
20) Iris	Iris open – closed		0..131	00..83	00..52

High Resolution (Extended)-Mode 31 DMX Channels

Kanal	Funktion	Zeiten und Werte	DMX	HEX	%
1) PAN- coarse	0 .. 540°		0..255	00..FF	0..100
2) PAN-fine	High- Pos ... High- Pos + (16 Bit)		0..255	00..FF	0..100
3) Tilt- coarse	0 .. 280°		0..255	00..FF	0..100
4) Tilt-fine	High- Pos ... High- Pos + (16 Bit)		0..255	00..FF	0..100
5) Color (fixed)	Colors adjustable via RGB		0..7	00..07	0..2,5
	Color 01 - Red		8..15	08..0F	3..5,5
	Color 02 - Amber		16..23	10..17	6..8,5
	Color 03 - Yellow warm		24..31	18..1F	9..12,5
	Color 04 - Yellow		32..39	20..27	13..15,5
	Color 05 - Green		40..47	28..2F	16..18,5
	Color 06 - Turquoise		48..55	30..37	19..21,5
	Color 07 - Cyan		56..63	38..3F	22..24,5
	Color 08 - Blue		64..71	40..47	25..27,5
	Color 09 - Lavender		72..79	48..4F	28..30,5
	Color 10 - Malve		80..87	50..57	31..34,5
	Color 11 - Magenta		88..95	58..5F	35..37,5
	Color 12 - Pink		96..103	60..67	38..40,5
	White - CTO	Color temp. 3200K	104..111	68..6F	41..43,5
	White	Color temp. 5600K	112..119	70..77	44..46,5
	White - CTB	Color temp. 7200K	120..127	78..7F	47..49,5
	Rainbow Effect Stop		128	80	50
	Rainbow Effect	slow – fast Color 01 ->Color 12	129..255	81..FF	51..100
6) Red- coarse	Color mixing system – Red	0 - 100%	0..255	00..FF	0..100
7) Red-fine	Color mixing system – Red-low		0..255	00..FF	0..100
8) Green- coarse	Color mixing system – Green	0 - 100%	0..255	00..FF	0..100
9) Green- fine	Color mixing system – Green-low		0..255	00..FF	0..100
10) Blue- coarse	Color mixing system – Blue	0 - 100%	0..255	00..FF	0..100
11) Blue-fine	Color mixing system – Blue-low		0..255	00..FF	0..100
12) Shutter	Shutter closed		0..15	00..0F	0..5,5
	Shutter pulse random	slow – fast	16..47	10..2F	6..18,5
	Shutter ramp up	slow – fast	48..79	30..4F	19..31
	Shutter ramp down	slow – fast	80..111	50..6F	32..43
	Shutter ramp up/down	slow – fast	112..143	70..8F	44..56
	Random strobe	slow – fast	144..159	90..9F	57..62
	Strobe effect pause	5s ...0,1s	160..199	A0..C7	63..77
	Strobe effect slow - fast	1 Hz .. 25 Hz	200..241	C8..F1	78..95
	Shutter open		242..255	F2..FF	96..100
13)Dimmer-coarse	Dimmer	0% - 100%	0..255	0..FF	0..100
14) Dimmer- fine	Dimmer low		0..255	0..FF	0..100
15) Color temp.	No color temperature correction		0..7	0..07	0..2,5
	Continuous color temperature correction between 7200k - 3200k	Applicable for ALL colors ⁵⁾	8..255	08..FF	3..100

16) Special	RESET 1	Only Head	250..253	FA..FC	98..99
	RESET 2	All Funktionen	254..255	FD..FF	100
17) Zoom coarse	Stepless adjustable Zoom	10° – 32°	0 .. 255	0..F F	0..100
18) Zoom fine	Zoom low	(0% - 100%)	0..255	0..FF	0..100
19) Focus coarse	Stepless adjustable Focus	infinity – near	0 .. 255	0..FF	0..100
20) Focus fine	Focus low	(0% - 100%)	0..255	0..FF	0..100
21) Gobo1 (indexed)	Gobo 1 (open)		0...15	00..0F	0..5,9
	Gobo 2		16..31	10..1F	6..11,9
	Gobo 3		32..47	20.. 2F	12..17,9
	Gobo 4		48..63	30.. 3F	19.. 24,5
	Gobo 5		64..79	40..4F	25..30,5
	Gobo 6		80..95	50..5F	31..37,5
	Gobo 7		96..111	60..6F	38..43,5
	Gobo 8		112..126	70..82	44..48
	Gobo rotation STOP		127	7F	49
	Gobo rotation, slow-fast, CW		128..192	80..C0	50..76
	Gobo rotation, fast-slow, CCW		193..255	C1..FF	77..100
22) Gobo 1 Posi./Rot coarse	Gobo position 0 ... 540°		0..127	00..7F	0..49
	Gobo rotation STOP		128..129	80..81	50
	Gobo rotation, slow-fast, CW		130..192	82..C0	51..75
	Gobo rotation, fast-slow, CCW		193..253	C1..FD	76..99
	Gobo rotation STOP		254..255	FD..FF	99..100
23) Gobo 1 rot fine	Gobo 1 rot. low	(0% - 100%)	0..255	0..FF	0..100
24) Gobo2 (indexed)	Gobo 1 (open)		0...15	00..0F	0..5,9
	Gobo 2		16..31	10..1F	6..11,9
	Gobo 3		32..47	20.. 2F	12..17,9
	Gobo 4		48..63	30.. 3F	19.. 24,5
	Gobo 5		64..79	40..4F	25..30,5
	Gobo 6		80..95	50..5F	31..37,5
	Gobo 7		96..111	60..6F	38..43,5
	Gobo 8		112..126	70..82	44..48
	Gobo rotation STOP		127	7F	49
	Gobo rotation, slow-fast, CW		128..192	80..C0	50..76
	Gobo rotation, fast-slow, CCW		193..255	C1..FF	77..100
25) Gobo 2 Posi./Rot coarse	Gobo position 0 ... 540°		0..127	00..7F	0..49
	Gobo rotation STOP		128..129	80..81	50
	Gobo rotation, slow-fast, CW		130..192	82..C0	51..75
	Gobo rotation, fast-slow, CCW		193..253	C1..FD	76..99
	Gobo rotation STOP		254..255	FD..FF	99..100
26) Gobo 2 rot fine	Gobo 2 rot. Low	(0% - 100%)	0..255	0..FF	0..100
27) Effect wheel swing	Stepless swing of the "Motion Wheel"	0 - 100%	0..255	00..FF	0..100
28) Effect wheel Posi./Rot	Rotating stop		0..1	00..01	00..1
	Rotating slow - fast CW		1..128	01..80	1..50
	Rotating fast - slow CCW		129..254	81..FD	51..99
	Rotating stop		254..255	FD..FF	99..100
29) Prism	Prism swing out		0..5	00..05	0..2
	Prism position 0 ... 540°		6..127	06..7F	0..50
	Prism rotation stop		128..129	80..81	50,1

	Prism rotation, slow-fast, CW		130..192	82..C0	51..75
	Prism rotation, fast-slow, CCW		193..253	C1..FD	76..99
	Prism rotation stop		254..255	FD..FF	99..100
30) Iris coarse	Iris open – closed		0..131	00..83	00..52
31) Iris fine	Iris low		0..255	00..FF	00..100

Locking and unlocking the Control Panel

The Display will auto lock automatically if the Touch Panel will not use for 10s. To unlock the Touch Panel you have to press one of the menu buttons for 2s..

¹⁾ Colors

The predefined colors can be used as start colors for the Rainbow effect. First select a desired start color, then activate the rainbow effect. All **Impression Spot One** will then begin from that color and execute the rainbow effect synchronously. Different **Impression Spot One** can have different start colors but will still execute the rainbow effect synchronously. If you choose a color different from the ones marked with ¹⁾ in the tables above the rainbow start-color will be red.

²⁾ Rainbow-effect Stop

will pause this function. After resuming the rainbow-effect will be continued with the current color.

³⁾ The Rainbow-effect

will run synchronously only if it is started from one of the predefined colors (see also ¹⁾ before).

⁴⁾ Attention:

Please note that shutter frequencies over 10 Hz are prohibited in some countries. Especially frequencies in the range of 5 - 12 Hz can possibly cause epileptic seizures → continuous blink irritation with a latency period of min. 70 ms. Please also refer to the relevant legislation of each country (For Germany for example: BGI 810-4 (Anhang 2) "Sicherheit bei Produktionen und Veranstaltungen - Scheinwerfer").

⁵⁾ Color Temperature

At anytime the **IMPRESSION Spot One** can be used the color correction for every RGB color.

